

Monthly Oversight Report 66 44728 AES [46526 RAC] ACS NPL Site Griffith, Indiana June 3, 2006 – June 30, 2006



101 N. Wacker Drive

Black & Veatch Special Projects Corp.

Suite 1100

Chicago, Illinois 60606-7302

Tel: (312) 346-3775 Fax: (312) 346-4781

USEPA/AES

American Chemical Service, Inc. RAO (0057-ROBE-05J7)

BVSPC Project 44728 BVSPC File C.3 July 17, 2006

Mr. Kevin Adler U.S. Environmental Protection Agency 77 W. Jackson Boulevard (SR-6J) Chicago, Illinois 60604-3590

Subject: Monthly Ov

Monthly Oversight Summary Report

No. 66 for June 2006

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 66 for June 2006 for the American Chemical Service, Inc. Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.

Site Manager

Enclosure

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Monthly Oversight Summary Report No. 66 ACS Superfund Site TO 057, 44728.238 (AES) [WA57, 46526.238 (RAC)]

Reporting Period: Month of June (June 3 through June 30, 2006)

BVSPC O/S Dates: June 19 & 20, 2006 (Mr. Gailey) and June 29, 2006 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Ryan	1	General Contractor
	2	Floor Coating Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant, the insitu soil vapor extraction systems, and the air sparge systems.
- Montgomery Watson Harza relocated the granular activated carbon tanks to provide operating space for other activities in the groundwater treatment plant.
- Montgomery Watson Harza replaced the existing 30 HP piston air compressor with a new 40 HP rotary screw air compressor.
- Montgomery Watson Harza recoated a portion of the floor in the groundwater treatment plant while the granular activated carbon tanks were relocated.
- NIPSCO removed, repaired, and replaced leaking transformers at the groundwater treatment plant.
- Montgomery Watson Harza pumped product from well SVE-53.

Activities Performed:

- Observed MWH continue to operate the groundwater treatment plant (GWTP) at a flow-demand rate of 22 to 40 gpm, treating 1,008,017 gallons during 732 of the 840 hours (87%) in the June period (May 26–June 30). MWH reported that groundwater was pumped to the plant from all trench and well sources.
- MWH reported that the GWTP was not operational for 2.5 days during the air compressor and transformer replacements and for 2 days when the GWTP floor was recoated, as described below. The GWTP was not inoperable because of problems with the GWTP system.

- Observed on June 19, MWH drain the two granular activated carbon (GAC) tanks, disconnect the hoses, and relocate the GAC tanks from in front of the doorway to the air compressor room to a temporary location in the center of the GWTP building.
- Observed on June 19, Ryan, Austgen, and MWH disconnect and remove the old 30 HP piston air compressor from the compressor room and replace it with a new 40 HP rotary screw air compressor.
- Observed on June 20, Ryan complete installation of electrical, mechanical, and piping elements for the new air compressor.
- Observed on June 20, Northern Indiana Public Service Company (NIPSCO) disconnect electrical power to the GWTP, and remove, repair and reinstall a leaking electrical transformer on the pole near the GWTP building. MWH reported that electrical power was restored later in the afternoon of June 20.
- MWH reported that it measured water levels in all monitoring locations on June 22 as part of the monthly monitoring plan.
- MWH reported that a portion of the GWTP floor in front of the laboratory, tool room, and air compressor room was recoated on June 27 and 28, while the GAC tanks were temporarily located in the center of the GWTP.
- Observed MWH continue to operate the Onsite Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer units 1 and 2 (thermox 1 and 2).
- MWH reported that it conducted the monthly compliance sampling of thermox 1 and 2 on June 22.
- MWH reported that thermox 1 operated for 25 of the 35 days (71%) in the June period, processing 1,000 cfm of vapors from the ONCA SBPA ISVE system, collecting vapors from the same 29 (of the total 46) ISVE wells that have been used during previous reporting periods.
- MWH reported that thermox 2 operated for 29 of the 35 days (83%) in the June period, processing 2,000 cfm of vapors collected from all 42 OFCA ISVE wells and aeration tank T-102.
- MWH reported that both ISVE systems were not operational for 4.5 days because of air compressor and transformer replacement and GWTP floor recoating (same as the GWTP). The SBPA ISVE system and thermox 1 were down for an additional 5.5 days because of problems with the burner and air regulator valve on the combustion blower. The OFCA ISVE system and thermox 2 were down for an additional 1.5 days because of a malfunctioning breaker.
- MWH reported that it pumped 50 gallons of free product from ISVE well SVE-53 in the SBPA on June 23. Product was collected in a drum at the surface and transported to the GWTP and transferred to oil holding tank T-6.
- MWH reported that in late May and early June, air was being injected into the SBPA through Group 1 wells (SVE-50, -54, -73, -79, and -81), each flowing at about 20 cfm. MWH reported that air injection was switched to Group 2 wells (SVE-49, -51, -65, -71, and -82) on June 22. MWH reported that air will be injected using this Group 2 set of wells through late July.

- Completed monthly oversight report (with field notes and photographs) for the May reporting period. Submitted Monthly Oversight Summary Report No. 65 to EPA on June 9
- Site Manager provided periodic reports of field activities to the EPA TOPO via telephone and E-mail.
- No operation and maintenance (O&M) meetings were held during the reporting period.

Topics of Concern: None

Concern Resolution: None

Upcoming Activities:

- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to continue operating Group 2 air injection wells in the SBPA.
- MWH to monitor odors in the ACS break room.
- MWH to continue pumping product from selected ONCA SBPA dual phase extraction wells.
- MWH to conduct Lower Aquifer Phase 3 Investigation, including installation of additional long-term groundwater monitoring network wells, installation of pumps in existing lower aquifer wells in the area of MW53, and burial of conveyance piping and electrical and control conduit from the area of MW53 to the GWTP.
- MWH will continue construction coordination meetings at the site when field activities warrant such meetings.
- MWH will continue monthly O&M meetings to report on operation of active treatment systems.

Signature:	Larry Campbell	Date:	July 17, 2006	
		t:\nro	iects acs(aes) osr 2006 0606 M	1066 da

Report Date: June-06 Remedial Progress Report 7/7/2006 **GWTP & Dewatering** The GWTP was operational for 732 hours out of 840 (87%) from May 26 to June 30 Tables, Graphs & Figures

Total Gallons treated = 1,008,017 gallons since 5/26/06 (35 days)

Table - Effluent Summary Graphs - Off-Site Dewatering Graphs - SBPA Dewatering

SBPA ISVE System

System operational 25 out of 35 days (71%) from May 26 to June 30 System monitoring was conducted on 6/22/06.

The next monitoring event is scheduled for 7/20/06.

Tables, Graphs & Figures Table - Sampling Data

Graph - Mass Extraction Graph - Total VOC Removal

Product Removal

	05/15/06	06/23/06
SVE-52	-	-
SVE-53	25 gal	50 gal
SVE-62	-	- 1
SVE-72	1000	-
SVE-88		
DPE 61		

Current Status

Active Well	s (30 of 46)
SVE-43	SVE-67
SVE-44	SVE-68
SVE-45	SVE-69
SVE-46	SVE-70
SVE-47	SVE-74
SVE-48	SVE-75
SVE-50	SVE-76
SVE-54	SVE-79
SVE-55	SVE-80
SVE-56	SVE-81
SVE-57	SVE-83
SVE-58	SVE-85
SVE-59	SVE-86
SVE-60	SVE-87
SVE-66	
Air Inject	ion Wells
(Grou	up 2)
SVE	-49
SVE	-51
SVE	-65
SVE	-71
SVE	-82

Off-Site ISVE System

System operational 29 out of 35 days (83%) from May 26 to June 30

System monitoring was conducted on 6/22/06.

The next monitoring event is scheduled for 7/20/06.

Cummont	Ctatura
Current	Status

Current Status				
Active Wells (42 of 42)				
SVE-01	SVE-22			
SVE-02	SVE-23			
SVE-03	SVE-24			
SVE-04	SVE-25			
SVE-05	SVE-26			
SVE-06	SVE-27			
SVE-07	SVE-28			
SVE-08	SVE-29			
SVE-09	SVE-30			
SVE-10	SVE-31			
SVE-11	SVE-32			
SVE-12	SVE-33			
SVE-13	SVE-34			
SVE-14	SVE-35			
SVE-15	SVE-36			
SVE-16	SVE-37			
SVE-17	SVE-38			
SVE-18	SVE-39			
SVE-19	SVE-40			
SVE-20	SVE-41			
SVE-21	SVE-42			

Tables, Graphs & Figures

Table - Sampling Data

Graph - Mass Extraction

Graph - Total VOC Removal

Comments

Data presented herein is for informational purposes only. Not all data presented in this report has been validated.

Table Summary of Effluent Analytical Results Groundwater Treatment System American Chemical Service NPL Site Griffith, Indiana

Event Date	Month 107 4/10/2006	Month 108 5/4/2006	Month 109 6/1/2006	Effluent Limits	Lab Reporting Limits
На	7.87	7.53	7.47 /J	6-9	none
TSS	0.9 B	NS	NS	30	10
BOD	_	NS	NS	30	2
Arsenic	20.6	NS	NS	50	3.4
Beryllium	0.66 B/UB	NS	NS	NE	0.2
Cadmium	ND	NS	NS	4.1	0.3
Manganese	2.6 B/B	NS	NS	NE	10
Mercury	ND	NS	NS	0.02 (w/DL = 0.64)	0.64
Selenium	ND	NS	NS	8.2	4.3
Thallium	ND	NS	NS	NE	5.7
Zinc	ND	NS	NS	411	1.2
Benzene	0.50 U/	0.50 U/	0.50 U/	5	0.5
Acetone	2.5 U/UJ	2.5 U/	2.5 U/UJ	6,800	3
2-Butanone	2.5 U/UJ	2.5 U/	2.5 U/	210	3
Chloromethane	0.50 U/	0.50 U/	0.50 U/UJ	NE	0.5
1,4-Dichlorobenzene	0.50 U/	0.50 U/	0.50 U/	NE	0.5
1,1-Dichloroethane	0.50 U/	0.50 U/	0.50 U/	NE	0.5
cis-1,2-Dichloroethene	0.50 U/	0.50 U/	0.50 U/	70	0.5
Ethylbenzene	0.50 U/	0.50 U/	0.50 U/	34	0.5
Methylene chloride	1.7	0.50 U/	0.45 J/	5	0.6
Tetrachloroethene	0.50 U/	0.50 U/	0.50 U/UJ	5	0.5
Trichloroethene	0.50 U/	0.50 U/	0.50 U/	5	0.5
Vinyl chloride	0.50 U/	0.50 U/	0.50 U/	2	0.5
4-Methyl-2-pentanone	2.5 U/UJ	2.5 U/	2.5 U/	15	3
bis (2-Chloroethyl) ether	ND	NS	NS	9.6	9.6
bis(2-Ethylhexyl) - phthalate	ND	NS NS	NS	6	6
4 - Methylphenol	ND	NS	NS	34	10
Isophorone	ND	NS	NS	50	10
Pentachlorophenol	ND	NS NS	NS	1	1
PCB/Aroclor-1016	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1221	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.92*
PCB/Aroclor-1232	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1242	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1248	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1254	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1260	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5

DRAFT VERSION

For Informational Purposes Only

Not all data presented here has been validated.

Notes and suffix definitions have not been updated.

Notes:

Bolded result indicates a exceedence of the discharge limit pH data is expressed in S.U.

Metals, VOC, SVOC and PCB data is expressed in ug/L

ND = Not detected

NS = This analyte was not sampled or analyzed for

NE = No effluent limit established.

DL = Detection limit

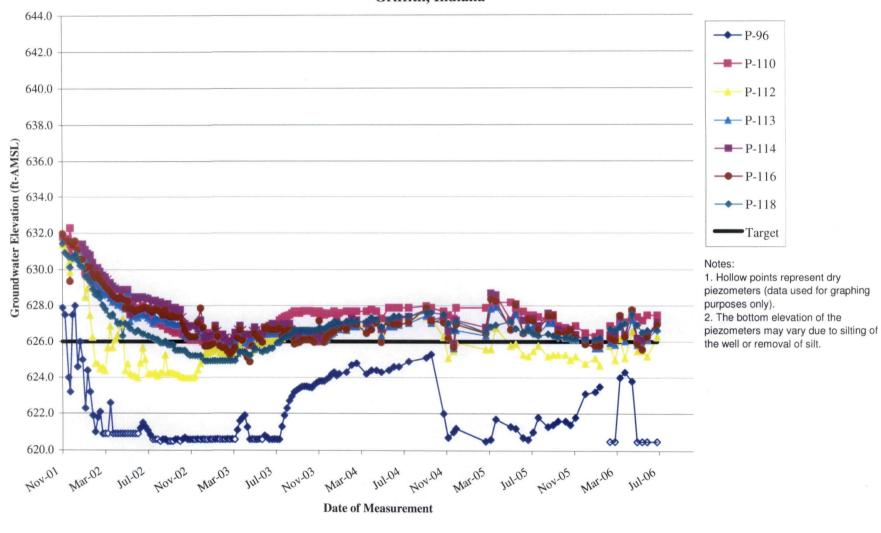
* = Approved SW-846 method is incapable of achieving effluent limit,

Suffix Definitions:

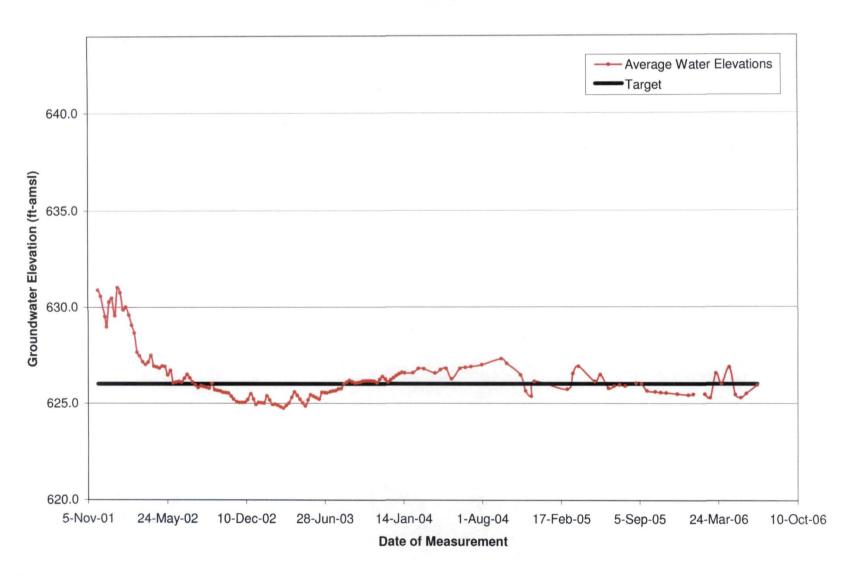
- _/ = Data qualifier added by laboratory
- /_ = Data qualifier added by data validator
- J = Result is estimated
- B = Compound is also detected in the blank
- UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value
- JB = Result is detected below the reporting limit and is an estimated concentration.
 - The compound is also detected in the method blank resulting in a potential high bias
- UB = Compound or analyte is not detected at or above the indicated concentration due to blank contamination
- UBJ = Analyte is not detected at or above the indicated concentration due to blank contamination, however the calibration was out of range. Therefore the concentration is estimated.

CDC/CAD/

Figure 3
Off-Site Water Level Status - Piezometers
Groundwater Monitoring
ACS NPL Site
Griffith, Indiana

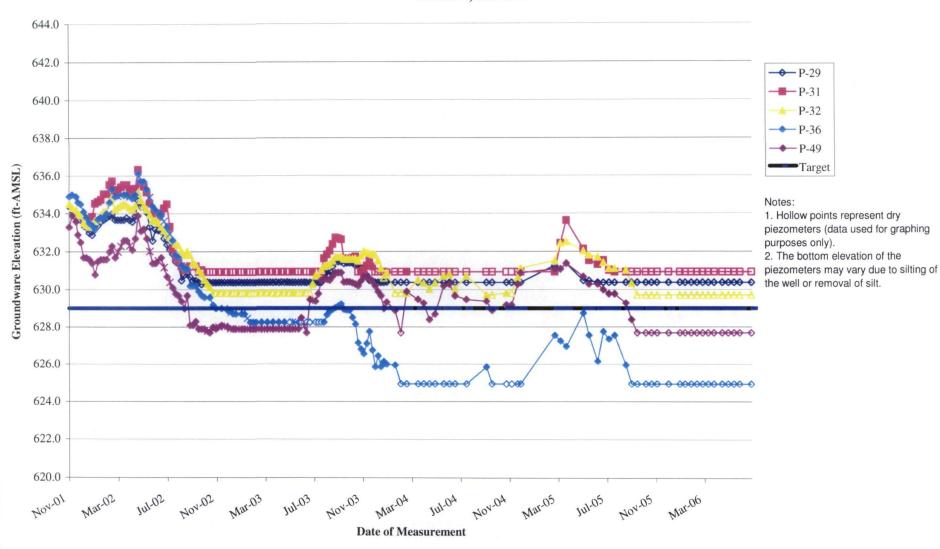


Off-Site Average Elevations



JEF/TPC/CDC 209\0603 ACS\0301 GWTP\BWES and Dewatering Data\BWES Performance.2006.xls[Off-Site Average Chart]

Figure 1
SBPA Water Level Status
ACS NPL Site
Griffith, Indiana



On-Site Average Water Elevations

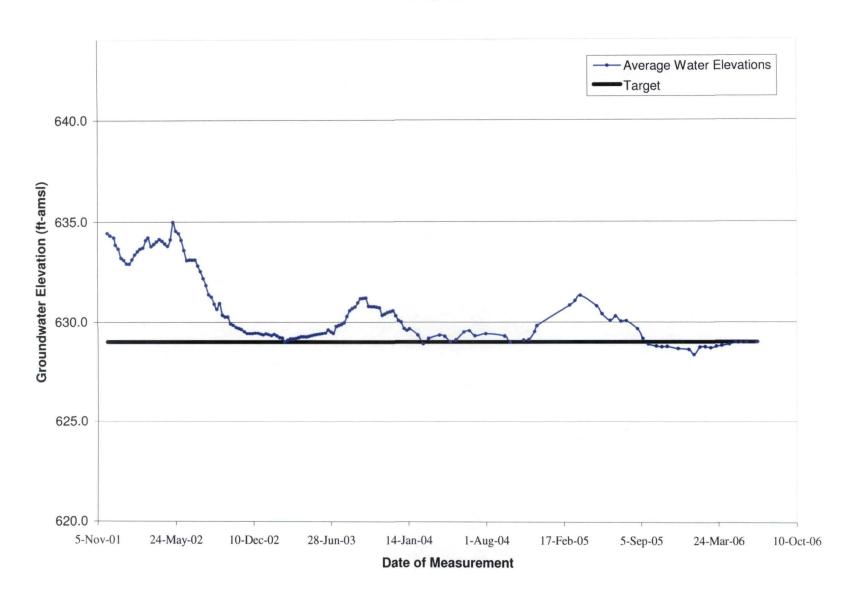


Table 3 SBPA and Off-Site ISVE System Results for Method TO-14 (VOCs) - May 2006 American Chemical Service

Griffith, Indiana

		Sampled 5/18/2006			
Compounds	Units	SBPA ISVE		Off-Site ISVE	
1,1,1-Trichloroethane	ppbv	17,000		24,000	
1,1,2,2-Tetrachloroethane	ppbv	ND	U	ND	U
1,1,2-Trichloroethane	ppbv	ND	U	ND	U
1,1-Dichloroethane	ppbv	2,100		3,300	
1,1-Dichloroethene	ppbv	120	J/J	250	J/J
1,2-Dichloroethane	ppbv	290		630	
1,2-Dichloropropane	ppbv	270		260	J/J
2-Butanone (Methyl Ethyl Ketone)	ppbv	570		9,800	
2-Hexanone	ppbv	ND	U		UJ
4-Methyl-2-pentanone	ppbv	720		3,700	J/J
Acetone	ppbv	420	J/J	19,000	
Benzene	ppbv	3,400		15,000	
Bromodichloromethane	ppbv	ND	U	ND	U
Bromoform	ppbv	ND	U	ND	U
Bromomethane	ppbv	ND	U	ND	U
Carbon Disulfide	ppbv	ND	U	ND	U
Carbon Tetrachloride	ppbv	ND	U	ND	U
Chlorobenzene	ppbv	ND	U	ND	U
Chloroethane	ppbv	210		ND	U
Chloroform	ppbv	4,600		1,600	
Chloromethane	ppbv	ND	U	ND	U
cis-1,2-Dichloroethene	ppbv	12,000		2,300	
cis-1,3-Dichloropropene	ppbv	ND	U	ND	U/R
Dibromochloromethane	ppbv	ND	U	ND	U
Ethyl Benzene	ppbv	6,100		15,000	
m,p-Xylene	ppbv	33,000		68,000	
Methylene Chloride	ppbv	3,600		23,000	
o-Xylene	ppbv	17,000		28,000	
Styrene	ppbv	ND	U	ND	U
Tetrachloroethene	ppbv	28,000		25,000	
Toluene	ppbv	42,000		92,000	
trans-1,2-Dichloroethene	ppbv	ND	U	ND	U
trans-1,3-Dichloropropene	ppbv	ND	U	ND	U
Trichloroethene	ppbv	15,000		17,000	
Vinyl Chloride	ppbv	1,300		230	J/J
Total	ppbv	187,700]	348,070)
Total	lb/hr	5.253		7.605	

Notes:

Qualifiers:

NC - Not calculated

J - Result is estimated

ND - Non-detect

U - below reported quantitation limit

ppbv - parts per billion volume

_/ - Laboratory data qualifier

Ib/hr - pounds per hour

/_ - Data validation qualifier

VOCs in lb/hr calculated based on 5/18/06 flow rate readings by Microbac: Offsite: 1812 scfm, 70 F;

On-site: 1566 scfm, 90 F.

Table 6 SBPA and Off-Site ISVE System Results for Method TO-13 (SVOCs) - May 2006 American Chemical Service Griffith, Indiana

	1	Sampled 5/18/2006			33.45
Compounds	Units	SBPA ISV ND	U	1.2	5 Y F.
1.2,4-Trichlorobenzene	<u>μg</u>	28	<u> </u>	37	
	μg	2.8	 	1.3	
1,3-Dichlorobenzene	μg	6.6		4.4	
	μg	0.0 ND	U	ND	U
2,4,5-Trichlorophenol	_µg	ND ND	Ū	$-\frac{ND}{ND}$	U
2,4-Dichlorophenol	μg	ND ND	U	ND ND	U
2,4-Dimethylphenol	μg	ND	U	ND ND	U
2,4-Dinitrophenol	μg	ND ND	U	ND ND	U
2,4-Dinitrotoluene	μд	ND	U	ND	U
2.6-Dinitrotoluene	μg	ND ND	Ü	ND ND	Ü
2-Chloronaphthalene	μg	ND ND	U	ND ND	U
2-Chlorophenol	μg	ND	U	ND	U
2-Methylnaplithalene	μg	7.I	 	7.8	
2-Methylphenol (o-Cresol)	μg	ND	U	ND ND	U
2-Nitroaniline	μg	ND	U	ND ND	U
2-Nitrophenol	μg	ND	-U	ND ND	U
3,3'-Dichlorobenzidine	μg	ND	Ü	ND	U
3-Nitroaniline	μg	ND	U	ND	U
4,6-Dinitro-2-methylphenol	μg	ND ND	U	ND ND	Ü
	μg	ND	U	$-\frac{ND}{ND}$	U
4-Bromophenyl-phenyl Ether	μg		U	$-\frac{ND}{ND}$	U
4-Chloro-3-methylphenol	μg	- ND	+	ND	U
4-Chloroaniline 4-Chlorophenyl-phenyl Ether	μg	ND ND	U	$-\frac{ND}{ND}$	U
4-Methylphenol/3-Methylphenol	μg	ND	U	$\frac{ND}{ND}$	U
4-Nitroaniline	μg	ND	U	ND ND	Ŭ
4-Nitrophenol	μg	ND ND	U	ND ND	U
Acenaphthene	μд	ND ND	U	ND ND	1-0
Acenaphthylene	μg	ND ND	U	ND	U
Anthracene	μg	ND ND	บ	ND	U
Benzo(a)anthracene	μg	ND ND	U	ND ND	U
Benzo(a)anunacene Benzo(a)pyrene	_ μg	ND	U	ND	U U
Benzo(b)fluoranthene	μg	ND ND	U	ND	U
Benzo(g,h,i)perylene	μg	ND ND	- U	$-\frac{ND}{ND}$	U
Benzo(k)fluoranthene	μg μg	- ND	U	ND	U
bis(2-Chloroethoxy) Methane	μд	ND ND	U	ND	U
bis(2-Chloroethyl) Ether	μg	ND	U	ND	U
bis(2-Ethylhexyl)phthalate	μg	7		9.3	
Butylbenzylphthalate	μg	ND	U	<u>ND</u> -	U
Chrysene	μg	ND	Ü	ND	Ū
Dibenz(a,h)anthracene	μg	ND	U	ND	Ü
Dibenzofuran	μg	ND	U	ND	U
Diethylphthalate	μg	0.62	J/J	1.4	J/J
Dimethylphthalate	μg	ND	U	ND	Ü
di-n-Butylphthalate	μg	ND	U	ND	U
Di-n-Octylphthalate	μg	ND	U	ND	U
Fluoranthene	μg	ND	U	ND	U
Fluorene	μg	ND	U	ND	U
Hexachlorobenzene	μg	ND	U	ND	U
Hexachlorobutadiene	μg	5		3.1	
Hexachlorocyclopentadiene	μg	ND	U	2.6	3/3
Hexachloroethane	μg	ND	U	ND	U
Indeno(1,2.3-c,d)pyrene	μg	ND	Ŭ.	ND	U
Isophorone	μg	2.5_		20	
Naphthalene	μg	_ [1]		36	
Nitrobenzene	μg	ND	Ü	ND	U
N-Nitroso-di-n-propylamine	_µg_	ND	U	ND	U
N-Nitrosodiphenylamine	μg	ND	U	ND	U
Pentachlorophenol	μg	ND	U	ND	U
Phenanthrene	μg_	ND	U	ND	U
Phenol	μg	ND	U	ND	U
Pyrene	μg	ND	U	ND	U
Total	μg	70.62		124.10	

Notes:

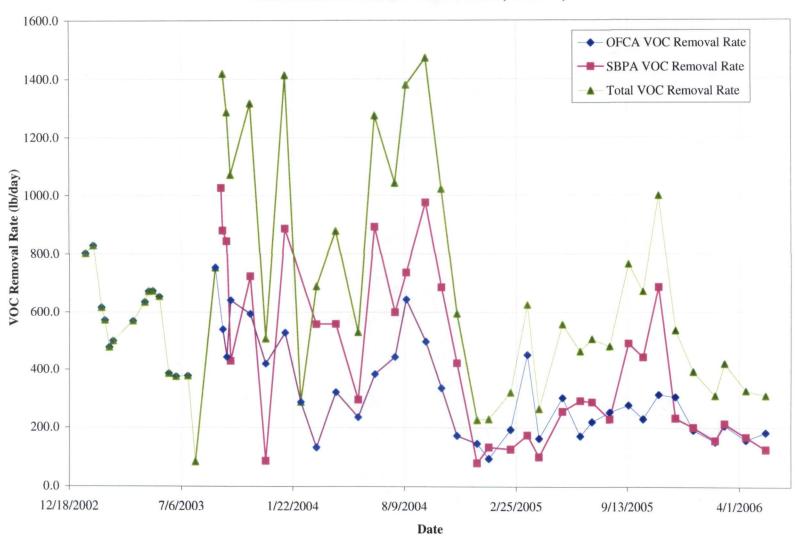
μg - Microgram NC - Not calculated ND - Non-detect

Qualifiers:

J - Result is estimated

U - below reported quantitation limit
_/ - Laboratory data qualifier
/_ - Data validation qualifier

VOC Removal Rate American Chemical Services NPL Site, Griffith, IN



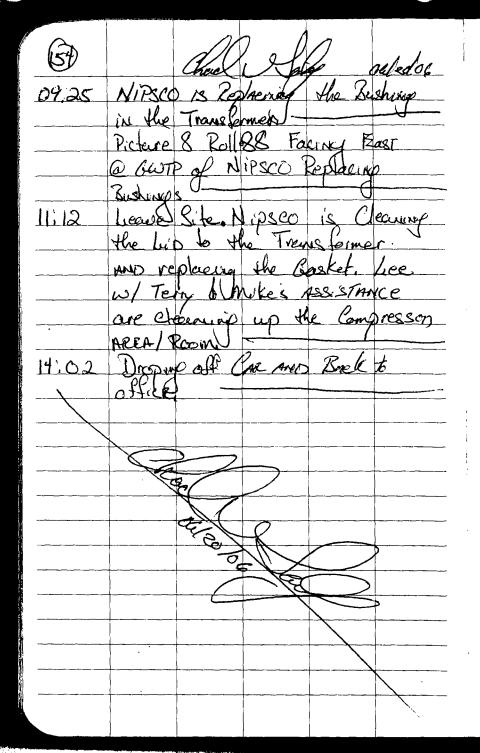
Total VOCs Removed American Chemical Services NPL Site, Griffith, IN



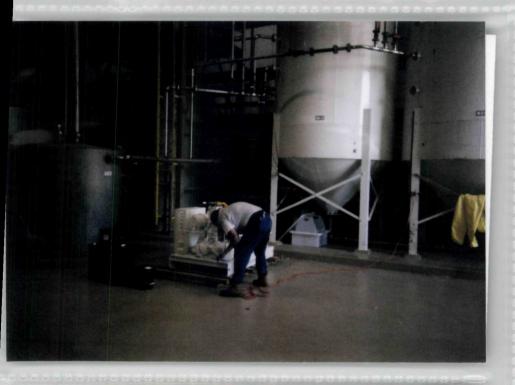
mult Facing C 88 اط The GUTP OF New Condressor 4120 Phota Eagt Facione BO DAI MADE Mode Replaced MADE EDEGAN 100 ps 1 Drawnin

delistos Access to the Compresser Room Copasitop is 3550 lbs w/ max horon of 189 inches w/ 24 inch spread by le/ks. * Note The Plant was Shut Down This marninge . Plans are to have it up in Runing tomorrow. Picture 3 Role 88 Facing SE INSIDE GUTP of hee GROST Setting up to remove del Conpressor, -11:12 Picker 4 Pole 88 Farmy Fast INSIDE GWIP of MWH hook up the Second Compressed Prings, Lex Removed. 11,30 Picture 5 Role 88 Facing Fast INSIDE GWIP of must Removing the AIR Compressix Tunk. -12:33 Preterre 6 Pole 88 Facines East MSIDE GLOP OF MUH Placing the New Compressor. 13:55 MWH is preping to hook up piping 6 Eletrical to the Congressor, 14:15 Leove Site for Du

GGF Clear MID S but mue workers on the installation Serve possible replacement of the transformer by N97500, Present TODAY. Lee ORORZ Mike Bristly Austreac Terry Frisk Rycan New Compressor while Ten Picture 7 Role 88 Facing SE GWTP OF NIPSCON WORK



29	JUN 06	(02)
0 900	privat Onsto	- Class Rayon
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0910	BUS-	
	Personnel des	50
	Lar cross	mass
	Tin Kirkan	Austran
	Lang Cample	e Buspe
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100-	notoring Wells	laker in mextment
10.20	Add 12	An de
المنت المحاليات	1	
	ma	emphell





Roll: 88 Photo #1
Date: 6-19-06 Time: 0915

Photographer: Chad Gailey

Description: Photo facing west inside the treatment plant showing Terry Frigtz of Ryan preparing the new compressor for installation.



Site: American Chemical Service, Inc.

Proj. #: 44728 AES [46526 RAC] Roll: 88 Photo #2

Date: 6-19-06 Time: 0920

Photographer: Chad Gailey

Description: Photo facing east looking into

compressor room showing Quincy Model ORD S15

being prepared for removal.





[46526 RAC] 44728 AES Proj. #: Photo #3 88 Roll: Time: 1035 6-19-06 Date:

Chad Gailey Photographer:

Description: Photo facing southeast inside GWTP

showing Lee Orosz preparing to remove old

compressor.



American Chemical Service, Inc. Site:

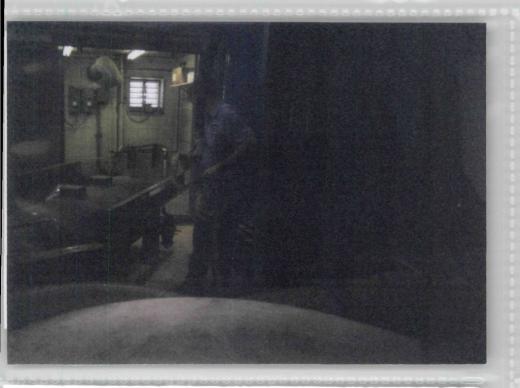
44728 AES [46526 RAC] Proj. #: Photo #4 88 Roll: Time: 1112

6-19-06 Date:

Chad Gailey Photographer:

Description: Photo looking east into compressor room as MWH prepares to connect the old compressor tank

for removal.





Proj. #: 44728 AES [46526 RAC] Roll: 88 Photo #5

Date: 6-19-06 Time: 1130

Photographer: Chad Gailey

Description: Photo facing east showing MWH

removing the air compressor tank from the compressor

room.



Site: American Chemical Service, Inc.

Proj. #: 44728 AES [46526 RAC] Roll: 88 Photo #6 Date: 6-19-06 Time: 1233

Photographer: Chad Gailey

Description: Photo facing east inside compressor room

showing newly installed Gardner-Denver Model

EDE99M screw pump air compressor.



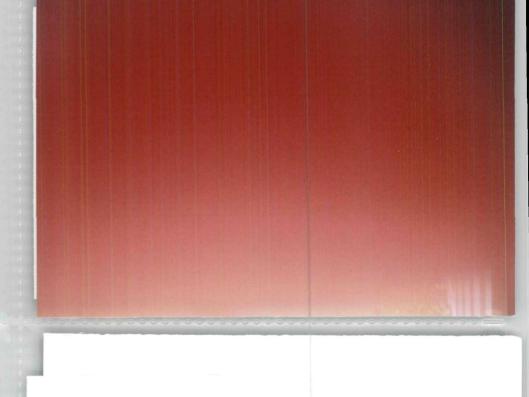
American Chemical Service, Inc. Site:

Proj. #: 44728 AES [46526 RAC] Photo #7 Roll: 88

Time: 0903 6-20-06 Date: Chad Gailey Photographer:

Description: Photo facing southeast showing NIPSCO

removing leaking electrical transformer.



American Chemical Service, Inc. Site:

Proj. #: 44728 AES [46526 RAC] Roll: 88 Photo #8 Date: 6-20-06 Time: 0925

Chad Gailey Photographer:

Description: Photo facing east showing NIPSCO

replacing bushings in transformer. [NOTE:

Photograph was overexposed.]